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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS	3	Feb 06	Engineering Information Encompass files have new names
NEWS	4	Feb 16	TOXLINE no longer being updated
NEWS	5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS	6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS	7	May 07	DGENE Reload
NEWS	8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS	9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS	10	Aug 23	In-process records and more frequent updates now in MEDLINE
NEWS	11	Aug 23	PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS	12	Aug 23	Adis Newsletters (ADISNEWS) now available on STN
NEWS	13	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS	14	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS	15	Oct 09	Number of Derwent World Patents Index updates increased
NEWS	16	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS	17	Oct 22	Over 1 million reactions added to CASREACT
NEWS	18	Oct 22	DGENE GETSIM has been improved
NEWS	19	Oct 29	AAASD no longer available
NEWS	20	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS	21	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS	22	Nov 29	COPPERLIT now available on STN
NEWS	23	Nov 29	DWPI revisions to NTIS and US Provisional Numbers
NEWS	24	Nov 30	Files VETU and VETB to have open access
NEWS	25	Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS	26	Dec 10	DGENE BLAST Homology Search
NEWS	27	Dec 17	WELDASEARCH now available on STN
NEWS	28	Dec 17	STANDARDS now available on STN
NEWS	29	Dec 17	New fields for DPCI
NEWS	30	Dec 19	CAS Roles modified
NEWS	31	Dec 19	1907-1946 data and page images added to CA and Caplus
NEWS EXPRESS			August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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=> file medline, agricola, caba, caplus, biosis, biotechno

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

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=> s (chang, m? or chang m?)/au

L1 7413 (CHANG, M? OR CHANG M?)/AU

=> s (keeling, p? or keeling p?)/au

L2 908 (KEELING, P? OR KEELING P?)/AU

=> s (wilhelm, e? or wilhelm e?)/au

L3 563 (WILHELM, E? OR WILHELM E?)/AU

=> s (weigel, j? or weigel j?)/au

L4 318 (WEIGEL, J? OR WEIGEL J?)/AU

=> s l1 and l2 and l3 and l4

L5 1 L1 AND L2 AND L3 AND L4

=> d l5 bib

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 1999:64916 CAPLUS
DN 130:138615
TI Animal feed with low phytic acid, oil-burdened and protein-laden grain
IN Chang, Ming-tang; Keeling, Peter L.; Wilhelm,
Edward P.; Weigel, Jerry C.
PA Exseed Genetics Llc, USA
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9902668	A1	19990121	WO 1998-US13685	19980707
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9883799	A1	19990208	AU 1998-83799	19980707
	EP 1005541	A1	20000607	EP 1998-934226	19980707
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001512661	T2	20010828	JP 2000-502166	19980707
PRAI	US 1997-51854	P	19970707		
	US 1997-51855	P	19970707		
	WO 1998-US13685	W	19980707		

RE.CNT 4

RE

- (1) Jongbloed; Netherlands Journal of Agriculture Science 1990, V38, P567 CAPLUS
- (2) Raboy; Crop Science 1993, V33, P1300 CAPLUS
- (3) Raboy; Phytic Acid Maydica 1990, V35, P383
- (4) Yi; Poultry Science 1996, V75, P240 CAPLUS

=> s l1 or l2 or l3 or l4

L6 9179 L1 OR L2 OR L3 OR L4

=> s phytic(w)acid

L7 9148 PHYTIC(W) ACID

=> s l6 and l7

L8 3 L6 AND L7

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 16:00:56 ON 09 JAN 2002

L1 7413 S (CHANG, M? OR CHANG M?)/AU
L2 908 S (KEELING, P? OR KEELING P?)/AU
L3 563 S (WILHELM, E? OR WILHELM E?)/AU
L4 318 S (WEIGEL, J? OR WEIGEL J?)/AU
L5 1 S L1 AND L2 AND L3 AND L4
L6 9179 S L1 OR L2 OR L3 OR L4
L7 9148 S PHYTIC(W)ACID
L8 3 S L6 AND L7

=> s l8 not l5

L9 2 L8 NOT L5

=> d l9 1-2 bib

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1999:126801 CAPLUS
 DN 130:194484
 TI Control of seed germination and phytate content using genes for phytate biosynthesis under the control of regulated promoters
 IN **Keeling, Peter L.; Chang, Ming-Tang;** Guan, Hanping;
Wilhelm, Edward P.
 PA Exseed Genetics, L.L.C., USA
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9907211	A1	19990218	WO 1998-US16702	19980811
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9890176	A1	19990301	AU 1998-90176	19980811
	EP 1011311	A1	20000628	EP 1998-942039	19980811
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001513326	T2	20010904	JP 2000-506821	19980811
PRAI	US 1997-55323	P	19970811		
	WO 1998-US16702	W	19980811		

RE.CNT 3

RE

- (1) Haring; Plant Molecular Biology 1991, V16, P449 CAPLUS
- (2) Henning; The Plant Journal 1993, V4, P481
- (3) Verwoerd; Plant Physiol 1995, 109, P1199

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1993:443473 CAPLUS

DN 119:43473

TI Adaptor self-aggregation, adaptor-receptor recognition and binding of α -adaptin subunits to the plasma membrane contribute to recruitment of adaptor (AP2) components of clathrin-coated pits

AU **Chang, Michael P.;** Mallet, William G.; Mostov, Keith E.; Brodsky, Frances M.

CS Sch. Pharm., Univ. California, San Francisco, CA, 94143-0446, USA

SO EMBO J. (1993), 12(5), 2169-80

CODEN: EMJODG; ISSN: 0261-4189

DT Journal

LA English

=> d his

(FILE 'HOME' ENTERED AT 16:00:35 ON 09 JAN 2002)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 16:00:56 ON 09 JAN 2002

L1 7413 S (CHANG, M? OR CHANG M?)/AU
 L2 908 S (KEELING, P? OR KEELING P?)/AU
 L3 563 S (WILHELM, E? OR WILHELM E?)/AU
 L4 318 S (WEIGEL, J? OR WEIGEL J?)/AU
 L5 1 S L1 AND L2 AND L3 AND L4
 L6 9179 S L1 OR L2 OR L3 OR L4
 L7 9148 S PHYTIC(W)ACID

L8 3 S L6 AND L7
L9 2 S L8 NOT L5

=> s l7 and seed

L10 841 L7 AND SEED

=> s l10 and (mutant(s)seed)

L11 16 L10 AND (MUTANT(S) SEED)

=> duplicate remove l11

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L11

L12 7 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)

=> d l12 1-7 ti

L12 ANSWER 1 OF 7 CABA COPYRIGHT 2002 CABI DUPLICATE 1
TI Genetics and breeding of **seed** phosphorus and **phytic acid**.

L12 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOSIS
TI Low **phytic acid** mutants and selection thereof.

L12 ANSWER 3 OF 7 CABA COPYRIGHT 2002 CABI
TI Isolation of high **seed** inorganic P, low-phytate soybean mutants.

L12 ANSWER 4 OF 7 MEDLINE DUPLICATE 2
TI Origin and **seed** phenotype of maize low **phytic acid** 1-1 and low **phytic acid** 2-1.

L12 ANSWER 5 OF 7 AGRICOLA DUPLICATE 3
TI Availability of phosphorus and trace elements in low-phytate varieties of barley and corn for rainbow trout (*Oncorhynchus mykiss*).

L12 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS
TI Myo-inositol 1-phosphate synthase mutant cDNA and soybean plants producing seeds with reduced levels of raffinose and **phytic acid**

L12 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS
TI Low **phytic acid**-containing corn **seed mutant** construction and selection

=> d l2 1-7 bib

L2 ANSWER 1 OF 908 MEDLINE
AN 2001674842 IN-PROCESS
DN 21577624 PubMed ID: 11720435
TI A common p73 polymorphism is associated with a reduced incidence of oesophageal carcinoma.
AU Ryan B M; McManus R; Daly J S; Carton E; **Keeling P W**; Reynolds J V; Kelleher D
CS Departments of Clinical Medicine and Gastroenterology, St. James's Hospital and Trinity College, Dublin 8, Ireland.
SO BRITISH JOURNAL OF CANCER, (2001 Nov) 85 (10) 1499-503.
Journal code: AV4; 0370635. ISSN: 0007-0920.
CY Scotland: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)

LA English
 FS IN-PROCESS; NONINDEXED; Priority Journals
 ED Entered STN: 20011127
 Last Updated on STN: 20011127

L2 ANSWER 2 OF 908 MEDLINE
 AN 2001673652 IN-PROCESS
 DN 21576489 PubMed ID: 11719785
 TI Parasites go the full monty.
 AU **Keeling P J**
 SO NATURE, (2001 Nov 22) 414 (6862) 401-2.
 Journal code: NSC; 0410462. ISSN: 0028-0836.
 CY England: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS IN-PROCESS; NONINDEXED; Priority Journals
 ED Entered STN: 20011126
 Last Updated on STN: 20011126

L2 ANSWER 3 OF 908 MEDLINE
 AN 2001637163 IN-PROCESS
 DN 21545018 PubMed ID: 11693658
 TI Diplonemid glyceraldehyde-3-phosphate dehydrogenase (GAPDH) and prokaryote-to-eukaryote lateral gene transfer.
 AU Qian Q; **Keeling P J**
 CS Canadian Institute for Advanced Research, Department of Botany, University of British Columbia, Vancouver, Canada.
 SO PROTIST, (2001 Sep) 152 (3) 193-201.
 Journal code: DGX; 9806488. ISSN: 1434-4610.
 CY Germany: Germany, Federal Republic of
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS IN-PROCESS; NONINDEXED; Priority Journals
 ED Entered STN: 20011107
 Last Updated on STN: 20011107

L2 ANSWER 4 OF 908 MEDLINE
 AN 2001560948 IN-PROCESS
 DN 21519011 PubMed ID: 11606230
 TI Alpha and beta subunits of pyruvate dehydrogenase E1 from the microsporidian Nosema locustae: mitochondrion-derived carbon metabolism in microsporidia.
 AU Fast N M; **Keeling P J**
 CS Canadian Institute for Advanced Research, Department of Botany, University of British Columbia, BC, V6T 1Z4, Vancouver, Canada.
 SO MOLECULAR AND BIOCHEMICAL PARASITOLOGY, (2001 Oct 1) 117 (2) 201-9.
 Journal code: NOR; 8006324. ISSN: 0166-6851.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS IN-PROCESS; NONINDEXED; Priority Journals
 ED Entered STN: 20011022
 Last Updated on STN: 20011022

L2 ANSWER 5 OF 908 MEDLINE
 AN 2001552350 IN-PROCESS
 DN 21447988 PubMed ID: 11564001
 TI A double-blind placebo-controlled study of buspirone-stimulated prolactin release in non-ulcer dyspepsia--are central serotonergic responses enhanced?.
 AU Dinan T G; Mahmud N; Rathore O; Thakore J; Scott L V; Carr E; Naesdal J; O'Morain C A; **Keeling P W**
 CS Department of Pharmacology and Therapeutics, The Cork Clinic, University College Cork, Western Road, Cork, Ireland.. tdinan@indigo.ie
 SO ALIMENTARY PHARMACOLOGY AND THERAPEUTICS, (2001 Oct) 15 (10) 1613-8.

Journal code: A5D; 8707234. ISSN: 0269-2813.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20011016
Last Updated on STN: 20011016

L2 ANSWER 6 OF 908 MEDLINE
AN 2001504155 MEDLINE
DN 21437986 PubMed ID: 11526220
TI Lateral transfer at the gene and subgenic levels in the evolution of eukaryotic enolase.
AU **Keeling P J**; Palmer J D
CS Department of Biology, Indiana University, Bloomington, IN 47405, USA..
pkeeling@interchange.ubc.ca
NC RO1 GM35087 (NIGMS)
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (2001 Sep 11) 98 (19) 10745-50.
Journal code: PV3; 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AF348914; GENBANK-AF348915; GENBANK-AF348916; GENBANK-AF348917; GENBANK-AF348918; GENBANK-AF348919; GENBANK-AF348920; GENBANK-AF348921; GENBANK-AF348922; GENBANK-AF348923; GENBANK-AF348924; GENBANK-AF348925; GENBANK-AF348926; GENBANK-AF348927; GENBANK-AF348928; GENBANK-AF348929; GENBANK-AF348930; GENBANK-AF348931; GENBANK-AF348932; GENBANK-AF348933; GENBANK-AF348934; GENBANK-AF348935; GENBANK-AF348936; GENBANK-AF348937; GENBANK-AF348938
EM 200111
ED Entered STN: 20010913
Last Updated on STN: 20011105
Entered Medline: 20011101

L2 ANSWER 7 OF 908 MEDLINE
AN 2001479290 MEDLINE
DN 21414067 PubMed ID: 11523007
TI Dinoflagellate nuclear SSU rRNA phylogeny suggests multiple plastid losses and replacements.
AU Saldarriaga J F; Taylor F J; **Keeling P J**; Cavalier-Smith T
CS Department of Botany, University of British Columbia, 6270 University Boulevard, Vancouver, British Columbia, V6T 1Z4, Canada..
jsalda@mail.botany.ubc.ca
SO JOURNAL OF MOLECULAR EVOLUTION, (2001 Sep) 53 (3) 204-13.
Journal code: J76; 0360051. ISSN: 0022-2844.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200110
ED Entered STN: 20010828
Last Updated on STN: 20011029
Entered Medline: 20011025

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L1 7413 S (CHANG, M? OR CHANG M?)/AU

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L2      908 S (KEELING, P? OR KEELING P?)/AU
L3      563 S (WILHELM, E? OR WILHELM E?)/AU
L4      318 S (WEIGEL, J? OR WEIGEL J?)/AU
L5      1 S L1 AND L2 AND L3 AND L4
L6      9179 S L1 OR L2 OR L3 OR L4
L7      9148 S PHYTIC(W)ACID
L8      3 S L6 AND L7
L9      2 S L8 NOT L5
L10     841 S L7 AND SEED
L11     16 S L10 AND (MUTANT(S)SEED)
L12     7 DUPLICATE REMOVE L11 (9 DUPLICATES REMOVED)

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NEWS 3 Feb 06 Engineering Information Encompass files have new names
NEWS 4 Feb 16 TOXLINE no longer being updated
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7 May 07 DGENE Reload
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL
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              DWPI and DPCI
NEWS 10 Aug 23 In-process records and more frequent updates now in
              MEDLINE
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN
NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change
              to PHARMASEARCH
NEWS 14 Oct 09 Korean abstracts now included in Derwent World Patents
              Index
NEWS 15 Oct 09 Number of Derwent World Patents Index updates increased
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NEWS 17 Oct 22 Over 1 million reactions added to CASREACT
NEWS 18 Oct 22 DGENE GETSIM has been improved
NEWS 19 Oct 29 AAASD no longer available
NEWS 20 Nov 19 New Search Capabilities USPATFULL and USPAT2
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NEWS 22 Nov 29 COPPERLIT now available on STN
NEWS 23 Nov 29 DWPI revisions to NTIS and US Provisional Numbers
NEWS 24 Nov 30 Files VETU and VETB to have open access
NEWS 25 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 26 Dec 10 DGENE BLAST Homology Search
NEWS 27 Dec 17 WELDASEARCH now available on STN

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NEWS 28 Dec 17 STANDARDS now available on STN
NEWS 29 Dec 17 New fields for DPCI
NEWS 30 Dec 19 CAS Roles modified
NEWS 31 Dec 19 1907-1946 data and page images added to CA and CPlus

NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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=> file medline, agricola, caba, caplus, biosis, biotechno

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 16:09:39 ON 09 JAN 2002

=> s phytic(w)acid

L1 9148 PHYTIC(W) ACID

=> s l1 and mutant(s) seed

L2 16 L1 AND MUTANT(S) SEED

=> duplicate remove l2

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L2

L3 7 DUPLICATE REMOVE L2 (9 DUPLICATES REMOVED)

=> d l3 1-7 ti

L3 ANSWER 1 OF 7 CABA COPYRIGHT 2002 CABI DUPLICATE 1
TI Genetics and breeding of seed phosphorus and **phytic acid**

L3 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOSIS
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L3 ANSWER 3 OF 7 CABA COPYRIGHT 2002 CABI
TI Isolation of high seed inorganic P, low-phytate soybean mutants.

L3 ANSWER 4 OF 7 MEDLINE DUPLICATE 2
TI Origin and seed phenotype of maize low **phytic acid** 1-1
and low **phytic acid** 2-1.

L3 ANSWER 5 OF 7 AGRICOLA DUPLICATE 3
TI Availability of phosphorus and trace elements in low-phytate varieties of
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L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS
TI Myo-inositol 1-phosphate synthase mutant cDNA and soybean plants producing
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L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS
TI Low **phytic acid**-containing corn **seed**
mutant construction and selection

=> d l3 1-7 bib

L3 ANSWER 1 OF 7 CABA COPYRIGHT 2002 CABI DUPLICATE 1
AN 2001:88392 CABA
DN 20013060564
TI Genetics and breeding of seed phosphorus and **phytic acid**
AU Raboy, V.; Young, K. A.; Dorsch, J. A.; Cook, A.
CS U.S.D.A. Agricultural Research Service, National Small Grains Germplasm
Research Facility, P.O. Box 307, 1691 So. 2700 W., Aberdeen, ID 83210,
USA.
SO Journal of Plant Physiology, (2001) Vol. 158, No. 4, pp. 489-497. 39 ref.
Meeting Info.: Seed development, metabolism, and biotechnology. 8th
International Symposium on Plant Seeds, Gatersleben, Germany, 27-31 August
2000.
ISSN: 0176-1617
DT Journal; Conference Article
LA English

L3 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOSIS
AN 2001:196754 BIOSIS
DN PREV200100196754

TI Low **phytic acid** mutants and selection thereof.
AU Raboy, Victor (1)
CS (1) Bozeman, MT USA
ASSIGNEE: The United States of America as represented by the Secretary of Agriculture
PI US 6111168 August 29, 2000
SO Official Gazette of the United States Patent and Trademark Office Patents, (Aug. 29, 2000) Vol. 1237, No. 5, pp. No Pagination. e-file.
ISSN: 0098-1133.
DT Patent
LA English

L3 ANSWER 3 OF 7 CABA COPYRIGHT 2002 CABI
AN 2001:38476 CABA
DN 20013012690
TI Isolation of high seed inorganic P, low-phytate soybean mutants
AU Wilcox, J. R.; Premachandra, G. S.; Young, K. A.; Raboy, V.
CS USDA-ARS, Crop Production and Pathology Research, Purdue Univ., West Lafayette, IN 47907-1150, USA.
SO Crop Science, (2000) Vol. 40, No. 6, pp. 1601-1605. 28 ref.
ISSN: 0011-183X
DT Journal
LA English

L3 ANSWER 4 OF 7 MEDLINE DUPLICATE 2
AN 2001039097 MEDLINE
DN 20438228 PubMed ID: 10982449
TI Origin and seed phenotype of maize low **phytic acid** 1-1 and low **phytic acid** 2-1.
AU Raboy V; Gerbasi P F; Young K A; Stoneberg S D; Pickett S G; Bauman A T; Murthy P P; Sheridan W F; Ertl D S
CS United States Department of Agriculture-Agricultural Research Service, National Small Grain Germplasm Research Facility, P.O. Box 307, Aberdeen, Idaho 83210, USA.. vraboy@uidaho.edu
SO PLANT PHYSIOLOGY, (2000 Sep) 124 (1) 355-68.
Journal code: P98. ISSN: 0032-0889.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200011
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001124

L3 ANSWER 5 OF 7 AGRICOLA DUPLICATE 3
AN 1999:58741 AGRICOLA
DN IND21995967
TI Availability of phosphorus and trace elements in low-phytate varieties of barley and corn for rainbow trout (*Oncorhynchus mykiss*).
AU Sugiura, S.H.; Raboy, V.; Young, K.A.; Dong, F.M.; Hardy, R.W.
CS University of Washington, Seattle, WA.
SO Aquaculture, Jan 15, 1999. Vol. 170, No. 3/4. p. 285-296
Publisher: Amsterdam, Elsevier
ISSN: 0044-8486
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1998:682536 CAPLUS
DN 129:300154
TI Myo-inositol 1-phosphate synthase mutant cDNA and soybean plants producing

seeds with reduced levels of raffinose and **phytic acid**
 IN Hitz, William Dean; Sebastian, Scott Anthony
 PA E.I. Du Pont De Nemours and Company, USA
 SO PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9845448	A1	19981015	WO 1998-US6822	19980407
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9871028	A1	19981030	AU 1998-71028	19980407
	EP 973913	A1	20000126	EP 1998-918023	19980407
	R: BE, DE, DK, ES, FR, GB, IT, NL, SE, PT, FI				
	BR 9808484	A	20000523	BR 1998-8484	19980407
	JP 2001519665	T2	20011023	JP 1998-543012	19980407
	NO 9904884	A	19991207	NO 1999-4884	19991007
PRAI	US 1997-835751	A2	19970408		
	WO 1998-US6822	W	19980407		

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:752804 CAPLUS
 DN 128:31098
 TI Low **phytic acid**-containing corn **seed mutant** construction and selection
 IN Raboy, Victor
 PA United States Dept. of Agriculture, USA
 SO U.S., 12 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5689054	A	19971118	US 1994-215065	19940317
	US 6111168	A	20000829	US 1997-810898	19970305
PRAI	US 1994-215065	A1	19940317		

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
 LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.79	16.94

STN INTERNATIONAL LOGOFF AT 16:11:36 ON 09 JAN 2002

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Welcome to STN International! Enter x:x

LOGINID:sssptal600cxc

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Feb 24 PCTGEN now available on STN
NEWS 4 Feb 24 TEMA now available on STN
NEWS 5 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 6 Feb 26 PCTFULL now contains images
NEWS 7 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8 Mar 24 PATDPAFULL now available on STN
NEWS 9 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 10 Apr 11 Display formats in DGENE enhanced
NEWS 11 Apr 14 MEDLINE Reload
NEWS 12 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 13 Jun 13 Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 14 Apr 21 New current-awareness alert (SDI) frequency in
WPIDS/WPINDEX/WPIX
NEWS 15 Apr 28 RDISCLOSURE now available on STN
NEWS 16 May 05 Pharmacokinetic information and systematic chemical names
added to PHAR
NEWS 17 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 18 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19 May 19 Simultaneous left and right truncation added to WSCA
NEWS 20 May 19 RAPRA enhanced with new search field, simultaneous left and
right truncation
NEWS 21 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 22 Jun 06 PASCAL enhanced with additional data
NEWS 23 Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS 24 Jun 25 HSDB has been reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:05:10 ON 15 JUL 2003

=> file medline, agricola, caba, caplus, biosis, biotechno
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 15:05:19 ON 15 JUL 2003

FILE 'AGRICOLA' ENTERED AT 15:05:19 ON 15 JUL 2003

FILE 'CABA' ENTERED AT 15:05:19 ON 15 JUL 2003

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FILE 'CAPLUS' ENTERED AT 15:05:19 ON 15 JUL 2003

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FILE 'BIOSIS' ENTERED AT 15:05:19 ON 15 JUL 2003

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FILE 'BIOTECHNO' ENTERED AT 15:05:19 ON 15 JUL 2003

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=> s oil AND protein AND phytic(w)acid

L1 227 OIL AND PROTEIN AND PHYTIC(W) ACID

=> s l1 AND (maize or corn or zea)

L2 40 L1 AND (MAIZE OR CORN OR ZEA)

=> duplicate remove l2

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L2

L3 17 DUPLICATE REMOVE L2 (23 DUPLICATES REMOVED)

=> d l3 1-10 ti

L3 ANSWER 1 OF 17 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.

TI Research needs to improve agricultural productivity and food quality, with emphasis on biotechnology

L3 ANSWER 2 OF 17 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2003) DUPLICATE 1

TI Bioavailability of phosphorus in **corn** gluten feed derived from conventional and low-phytate **maize**.

L3 ANSWER 3 OF 17 MEDLINE DUPLICATE 2

TI Preventive potential of wheat bran fractions against experimental colon carcinogenesis: implications for human colon cancer prevention.

L3 ANSWER 4 OF 17 MEDLINE

TI Zinc bioavailability in soybean meal.

L3 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS

TI Disposable absorbent article having a skin care composition containing an enzyme inhibitor

L3 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS

TI Animal feed with low **phytic acid**, oil -burdened and **protein**-laden grain

L3 ANSWER 7 OF 17 MEDLINE DUPLICATE 3

TI Effect of dietary phytate on magnesium bioavailability and liver oxidant status in growing rats.

L3 ANSWER 8 OF 17 MEDLINE DUPLICATE 4
 TI **Phytic acid** inhibits free radical formation in vitro
 but does not affect liver oxidant or antioxidant status in growing rats.

L3 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS
 TI Effect of dietary phytate on magnesium bioavailability and liver oxidant
 status in growing rats

L3 ANSWER 10 OF 17 CABA COPYRIGHT 2003 CABI
 TI Designer ingredients for animals from a plant breeder perspective.

=> d l3 2,6 bib

L3 ANSWER 2 OF 17 AGRICOLA Compiled and distributed by the National
 Agricultural Library of the Department of Agriculture of the United States
 of America. It contains copyrighted materials. All rights reserved.
 (2003) DUPLICATE 1

AN 2002:15808 AGRICOLA
 DN IND23255957
 TI Bioavailability of phosphorus in **corn** gluten feed derived from
 conventional and low-phytate **maize**.
 AU Peter, C.M.; Baker, D.H.
 AV DNAL (SF95.A55)
 SO Animal feed science and technology, Jan 14, 2002. Vol. 95, No. 1/2. p.
 63-71
 Publisher: Amsterdam, The Netherlands : Elsevier Science B.V.
 CODEN: AFSTDH; ISSN: 0377-8401

NTE Includes references
 CY Netherlands
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L3 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1999:64916 CAPLUS
 DN 130:138615
 TI Animal feed with low **phytic acid**, oil
 -burdened and **protein**-laden grain
 IN Chang, Ming-tang; Keeling, Peter L.; Wilhelm, Edward P.; Weigel, Jerry C.
 PA Exseed Genetics Llc, USA
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9902668	A1	19990121	WO 1998-US13685	19980707
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9883799	A1	19990208	AU 1998-83799	19980707
	EP 1005541	A1	20000607	EP 1998-934226	19980707
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2001512661	T2	20010828	JP 2000-502166	19980707
	MX 200000316	A	20001113	MX 2000-316	20000107
PRAI	US 1997-51854P	P	19970707		

US 1997-51855P P 19970707
WO 1998-US13685 W 19980707
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l3 11-17 ti

L3 ANSWER 11 OF 17 MEDLINE DUPLICATE 5
TI The influence of different **protein** sources on phytate inhibition
of nonheme-iron absorption in humans.

L3 ANSWER 12 OF 17 MEDLINE DUPLICATE 6
TI Inhibitory effect of a soybean-**protein**--related moiety on iron
absorption in humans.

L3 ANSWER 13 OF 17 MEDLINE DUPLICATE 7
TI Soy **protein**, phytate, and iron absorption in humans.

L3 ANSWER 14 OF 17 CABA COPYRIGHT 2003 CABI DUPLICATE 8
TI Alteration of **maize** kernel **phytic acid**
levels by recurrent selection for **protein** and **oil**.

L3 ANSWER 15 OF 17 CABA COPYRIGHT 2003 CABI
TI [Improvement of the bioavailability of zinc in wholemeal bread and
crispbread].
Verbesserung der biologischen Verfu'gbarkeit von Zink in Schrot- und
Knackebrot.

L3 ANSWER 16 OF 17 MEDLINE
TI Effect of fiber and phytate source and of calcium and phosphorus level on
phytate hydrolysis in the chick.

L3 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS
TI Activity and localization of acid phosphatase in the vegetative parts of
some angiosperms and in some seeds

=> d l3 14 bib

L3 ANSWER 14 OF 17 CABA COPYRIGHT 2003 CABI DUPLICATE 8
AN 89:120900 CABA
DN 891608851
TI Alteration of **maize** kernel **phytic acid**
levels by recurrent selection for **protein** and **oil**
AU Raboy, V.; Below, F. E.; Dickinson, D. B.
CS USDA-ARS, Dep. Pl. & Soil Sci., Montana State Univ., Bozeman, MT 59717,
USA.
SO Journal of Heredity, (1989) Vol. 80, No. 4, pp. 311-315. 26 ref.
ISSN: 0022-1503
DT Journal
LA English

=> s (chang, m? or chamg m?)/au
L4 8228 (CHANG, M? OR CHAMG M?)/AU

=> s (chang, m? or chang m?)/au
L5 8228 (CHANG, M? OR CHANG M?)/AU

=> s (keeling, p? or keeling p?)/au
L6 1026 (KEELING, P? OR KEELING P?)/AU

=> s (wilhelm, e? or wilhelm e?)/au
L7 597 (WILHELM, E? OR WILHELM E?)/AU


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=> s (weigel, j? or weigel j?)/au
L8      353 (WEIGEL, J? OR WEIGEL J?)/AU

=> s l5 and l6 and l7 and l8
L9      1 L5 AND L6 AND L7 AND L8

=> s l5 or l6 or l7 or l8
L10     10178 L5 OR L6 OR L7 OR L8

=> s l10 and phytic(w)acid
L11     3 L10 AND PHYTIC(W) ACID

=> duplicate remove l11
PROCESSING COMPLETED FOR L11
L12     3 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)

=> d l12 1-3 ti

L12 ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2003 ACS
TI   Control of seed germination and phytate content using genes for phytate
      biosynthesis under the control of regulated promoters

L12 ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2003 ACS
TI   Animal feed with low phytic acid, oil-burdened and
      protein-laden grain

L12 ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2003 ACS
TI   Adaptor self-aggregation, adaptor-receptor recognition and binding of
       $\alpha$ -adaptin subunits to the plasma membrane contribute to recruitment
      of adaptor (AP2) components of clathrin-coated pits
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=> d his
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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
15:05:19 ON 15 JUL 2003
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L1      227 S OIL AND PROTEIN AND PHYTIC(W)ACID
L2      40 S L1 AND (MAIZE OR CORN OR ZEA)
L3      17 DUPLICATE REMOVE L2 (23 DUPLICATES REMOVED)
L4      8228 S (CHANG, M? OR CHANG M?)/AU
L5      8228 S (CHANG, M? OR CHANG M?)/AU
L6      1026 S (KEELING, P? OR KEELING P?)/AU
L7      597 S (WILHELM, E? OR WILHELM E?)/AU
L8      353 S (WEIGEL, J? OR WEIGEL J?)/AU
L9      1 S L5 AND L6 AND L7 AND L8
L10     10178 S L5 OR L6 OR L7 OR L8
L11     3 S L10 AND PHYTIC(W)ACID
L12     3 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)
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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
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LOGOFF? (Y)/N/HOLD:y
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COST IN U.S. DOLLARS
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SINCE FILE
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TOTAL
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ENTRY
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SESSION
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FULL ESTIMATED COST
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46.75
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46.96
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STN INTERNATIONAL LOGOFF AT 15:14:46 ON 15 JUL 2003
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Welcome to STN International! Enter x:x

LOGINID:sssptal600cxc

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPLUS
NEWS 5 FEB 05 German (DE) application and patent publication number format
changes
NEWS 6 MAR 03 MEDLINE and LMEADLINE reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 03 FRANCESPAT now available on STN
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 No connect hour charges in WPIFV until May 1, 2004
NEWS 12 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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FILE 'HOME' ENTERED AT 09:54:49 ON 12 APR 2004

=> file medline, agricola, caba, caplus, biosis, biotechno		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 09:54:58 ON 12 APR 2004

FILE 'AGRICOLA' ENTERED AT 09:54:58 ON 12 APR 2004

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=> s (corn or zea or maize) and seed
L1 32794 (CORN OR ZEA OR MAIZE) AND SEED

=> s (phytate or phytic) and oil and protein
L2 298 (PHYTATE OR PHYTIC) AND OIL AND PROTEIN

=> s l1 and l2
L3 6 L1 AND L2

=> duplicate remove l2
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L2
L4 172 DUPLICATE REMOVE L2 (126 DUPLICATES REMOVED)

=> duplicate remove l3
DUPLICATE PREFERENCE IS 'CAPLUS, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L3
L5 5 DUPLICATE REMOVE L3 (1 DUPLICATE REMOVED)

=> d l5 1-5 ti

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Production, expression and sequence of modified recombinant Escherichia coli phytase with enhanced thermostability and proteolytic resistance for use in foodstuffs

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI An animal nutritionist's perspective

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Animal feed with low **phytic** acid, **oil**-burdened and **protein**-laden grain

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
TI Alteration of **maize** kernel **phytic** acid levels by recurrent selection for **protein** and **oil**

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Complexation of **phytate** with proteins and cations in **corn** germ and **oil seed** meals

=> d l5 2-5 bib

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:759631 CAPLUS
DN 134:114943
TI An animal nutritionist's perspective
AU Cromwell, Gary L.
CS University of Kentucky, Lexington, KY, USA
SO Agronomy (2000), 40(Designing Crops for Added Value), 57-82

CODEN: AGRYAV; ISSN: 0065-4663
 PB American Society of Agronomy
 DT Journal; General Review
 LA English
 RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:64916 CAPLUS
 DN 130:138615
 TI Animal feed with low **phytic acid**, **oil-burdened** and **protein-laden** grain
 IN Chang, Ming-tang; Keeling, Peter L.; Wilhelm, Edward P.; Weigel, Jerry C.
 PA Exseed Genetics Llc, USA
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9902668	A1	19990121	WO 1998-US13685	19980707
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9883799	A1	19990208	AU 1998-83799	19980707
	EP 1005541	A1	20000607	EP 1998-934226	19980707
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001512661	T2	20010828	JP 2000-502166	19980707
	NZ 515939	A	20031031	NZ 1998-515939	19980707
	MX 200000316	A	20001113	MX 2000-316	20000107
PRAI	US 1997-51854P	P	19970707		
	US 1997-51855P	P	19970707		
	NZ 1998-501964	A	19980707		
	WO 1998-US13685	W	19980707		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
 AN 1989:591641 CAPLUS
 DN 111:191641
 TI Alteration of **maize** kernel **phytic acid** levels by recurrent selection for **protein** and **oil**
 AU Raboy, V.; Below, F. E.; Dickinson, D. B.
 CS Dep. Hortic., Univ. Illinois, Urbana, IL, USA
 SO Journal of Heredity (1989), 80(4), 311-15
 CODEN: JOHEA8; ISSN: 0022-1503
 DT Journal
 LA English

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1976:445090 CAPLUS
 DN 85:45090
 TI Complexation of **phytate** with proteins and cations in **corn** germ and **oil seed** meals
 AU O'Dell, Boyd L.; De Boland, Ana
 CS Biochem. Dep., Univ. Missouri, Columbia, MO, USA
 SO Journal of Agricultural and Food Chemistry (1976), 24(4), 804-8

CODEN: JAFCAU; ISSN: 0021-8561
DT Journal
LA English

=> s nutridense and (phytic or phytate)
L6 4 NUTRIDENSE AND (PHYTIC OR PHYTATE)

=> duplicate remove l6
PROCESSING COMPLETED FOR L6
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> d l7 1-4 ti

L7 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Comparison of yellow dent and **NutriDense** corn hybrids for
nursery pig diets.

L7 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Effects of low-**phytate** corn on growth performance and bone
parameters of commercial tom turkeys.

L7 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Zinc absorption from two low **phytic** acid corns.

L7 ANSWER 4 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Comparison of zinc absorption from two low **phytic** acid corns.

=> d l7 1-4 bib

L7 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:568261 BIOSIS
DN PREV200200568261
TI Comparison of yellow dent and **NutriDense** corn hybrids for
nursery pig diets.
AU Hastad, C. W. [Reprint author]; Tokach, M. D. [Reprint author]; Nelssen,
J. L. [Reprint author]; Goodband, R. D. [Reprint author]; Dritz, S. S.
[Reprint author]; Peter, C. M.
CS Kansas State University, Manhattan, KS, USA
SO Journal of Animal Science, (2002) Vol. 80, No. Supplement 2, pp. 60.
print.
Meeting Info.: Meeting of the American Society of Animal Science
Midwestern Section and the American Dairy Science Association, Midwest
Branch. Des Moines, IA, USA. March 18-20, 2002. American Dairy Science
Association; American Society of Animal Science.
CODEN: JANSAG. ISSN: 0021-8812.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 7 Nov 2002
Last Updated on STN: 7 Nov 2002

L7 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:12623 BIOSIS
DN PREV200300012623
TI Effects of low-**phytate** corn on growth performance and bone
parameters of commercial tom turkeys.
AU Klunzinger, M. W.; Roberson, K. D.
SO Poultry Science, (July 2001) Vol. 80, No. 7, pp. 1015. print.
Meeting Info.: Concurrent Meetings of The Southern Poultry Science
Society, 22nd Annual Meeting and The Southern Conference on Avian
Diseases, 42nd Annual Meeting. January 15-16, 2002. Southern Poultry
Science Society.
ISSN: 0032-5791 (ISSN print).

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 25 Dec 2002
Last Updated on STN: 25 Dec 2002

L7 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2001:262024 BIOSIS
DN PREV200100262024
TI Zinc absorption from two low **phytic** acid corns.
AU Hambidge, K. M. [Reprint author]; Huffer, J. W. [Reprint author]; Raboy, V. E.; Dorsch, J. A.; Westcott, J. [Reprint author]; Adams, C. [Reprint author]; Krebs, N. F. [Reprint author]
CS Sect of Nutr, Dept of Peds, University of Colorado Health Sciences Center, Denver, CO, 80262, USA
SO FASEB Journal, (March 7, 2001) Vol. 15, No. 4, pp. A402. print.
Meeting Info.: Annual Meeting of the Federation of American Societies for Experimental Biology on Experimental Biology 2001. Orlando, Florida, USA. March 31-April 04, 2001.
CODEN: FAJOEC. ISSN: 0892-6638.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 30 May 2001
Last Updated on STN: 19 Feb 2002

L7 ANSWER 4 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:178831 BIOSIS
DN PREV200200178831
TI Comparison of zinc absorption from two low **phytic** acid corns.
AU Huffer, J. W. [Reprint author]; Hambidge, K. M. [Reprint author]; Raboy, V. E. [Reprint author]; Dorsch, J. A. [Reprint author]; Krebs, N. F. [Reprint author]
CS Department of Pediatrics, University of Colorado Health Sciences Center, Denver, CO, USA
SO Journal of Investigative Medicine, (January, 2001) Vol. 49, No. 1, pp. 42A. print.
Meeting Info.: Joint Regional Meeting of the Western Section American Federation for Medical Research, the Western Society for Clinical Investigation and the Western Association of Physicians. Carmel, California, USA. February 07-10, 2001. American Federation for Medical Research, Western Section; Western Society for Clinical Investigation; Western Association of Physicians.
ISSN: 1081-5589.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 6 Mar 2002
Last Updated on STN: 6 Mar 2002

=> d his

(FILE 'HOME' ENTERED AT 09:54:49 ON 12 APR 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 09:54:58 ON 12 APR 2004

L1 32794 S (CORN OR ZEA OR MAIZE) AND SEED
L2 298 S (PHYTATE OR PHYTIC) AND OIL AND PROTEIN
L3 6 S L1 AND L2
L4 172 DUPLICATE REMOVE L2 (126 DUPLICATES REMOVED)
L5 5 DUPLICATE REMOVE L3 (1 DUPLICATE REMOVED)
L6 4 S NUTRIDENSE AND (PHYTIC OR PHYTATE)
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> s corn or zea or mays
L8 419434 CORN OR ZEA OR MAYS

=> s l2 and l8
L9 50 L2 AND L8

=> s l9 not l3
L10 45 L9 NOT L3

=> duplicate remove l10
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L10
L11 24 DUPLICATE REMOVE L10 (21 DUPLICATES REMOVED)

=> s l11 not l7
L12 23 L11 NOT L7

=> d l12 1-10 ti

L12 ANSWER 1 OF 23 MEDLINE on STN
TI Preventive potential of wheat bran fractions against experimental colon carcinogenesis: implications for human colon cancer prevention.

L12 ANSWER 2 OF 23 MEDLINE on STN
TI Zinc bioavailability in soybean meal.

L12 ANSWER 3 OF 23 MEDLINE on STN
TI Effect of dietary **phytate** on magnesium bioavailability and liver oxidant status in growing rats.

L12 ANSWER 4 OF 23 MEDLINE on STN
TI **Phytic** acid inhibits free radical formation in vitro but does not affect liver oxidant or antioxidant status in growing rats.

L12 ANSWER 5 OF 23 MEDLINE on STN
TI The influence of different **protein** sources on **phytate** inhibition of nonheme-iron absorption in humans.

L12 ANSWER 6 OF 23 MEDLINE on STN
TI Inhibitory effect of a soybean-**protein**--related moiety on iron absorption in humans.

L12 ANSWER 7 OF 23 MEDLINE on STN
TI Soy **protein**, **phytate**, and iron absorption in humans.

L12 ANSWER 8 OF 23 MEDLINE on STN
TI Effect of fiber and **phytate** source and of calcium and phosphorus level on **phytate** hydrolysis in the chick.

L12 ANSWER 9 OF 23 MEDLINE on STN
TI Combined zinc and iron compared with iron supplementation of diets of 6- to 12-year old village schoolchildren in southern Iran.

L12 ANSWER 10 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
TI Bioavailability of phosphorus in **corn** gluten feed derived from conventional and low-**phytate** maize.

=> d l12 11-20 ti

L12 ANSWER 11 OF 23 AGRICOLA Compiled and distributed by the National

Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

TI 1 alpha-hydroxycholecalciferol does not increase the specific activity of intestinal phytase but does improve phosphorus utilization in both cecectomized and sham-operated chicks fed cholecalciferol-adequate diets.

L12 ANSWER 12 OF 23 CABA COPYRIGHT 2004 CABI on STN

TI Compositional enhancements of cereals and vegetable proteins by plant breeders.

L12 ANSWER 13 OF 23 CABA COPYRIGHT 2004 CABI on STN

TI Enzymatic efficiency of plant and microbial phytase in cereal-rape seed diets for growing pigs.

L12 ANSWER 14 OF 23 CABA COPYRIGHT 2004 CABI on STN

TI Designer ingredients for animals from a plant breeder perspective.

L12 ANSWER 15 OF 23 CABA COPYRIGHT 2004 CABI on STN

TI Alteration of maize kernel **phytic** acid levels by recurrent selection for **protein** and **oil**.

L12 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

TI Disposable absorbent article having a skin care composition containing an enzyme inhibitor

L12 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

TI Disposable absorbent article having a skin care composition containing an enzyme inhibitor

L12 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

TI Effect of dietary **phytate** on magnesium bioavailability and liver oxidant status in growing rats

L12 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

TI Effects of proteins, sodium **phytate** and mineral mixture on the formation of lipid peroxides

L12 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

TI Effects of autoclaved-spray-dried egg white as the sole source of dietary **protein** on zinc requirement and performance of the baby pig

=> d 112 15 bib

L12 ANSWER 15 OF 23 CABA COPYRIGHT 2004 CABI on STN

AN 89:120900 CABA

DN 19891608851

TI Alteration of maize kernel **phytic** acid levels by recurrent selection for **protein** and **oil**

AU Raboy, V.; Below, F. E.; Dickinson, D. B.

CS USDA-ARS, Dep. Pl. & Soil Sci., Montana State Univ., Bozeman, MT 59717, USA.

SO Journal of Heredity, (1989) Vol. 80, No. 4, pp. 311-315. 26 ref.

ISSN: 0022-1503

DT Journal

LA English

ED Entered STN: 19941101

Last Updated on STN: 19941101

=> d 112 21-23

L12 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1975:591576 CAPLUS

DN 83:191576
 TI Identification and properties of **phytate** in cereal grains and oilseed products
 AU De Boland, Ana R.; Garner, George B.; O'Dell, Boyd L.
 CS Dep. Biochem., Univ. Missouri, Columbia, MO, USA
 SO Journal of Agricultural and Food Chemistry (1975), 23(6), 1186-9
 CODEN: JAFCAU; ISSN: 0021-8561
 DT Journal
 LA English

L12 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1974:69504 CAPLUS
 DN 80:69504
 TI Zinc supplementation of malnourished schoolboys in Iran. Increased growth and other effects
 AU Ronaghy, H. A.; Reinhold, J. G.; Mahloudji, M.; Ghavami, P.; Fox, M. R. Spivey; Halsted, J. A.
 CS Inst. Nucl. Med., Pahlavi Univ., Shiraz, Iran
 SO American Journal of Clinical Nutrition (1974), 27(2), 112-21
 CODEN: AJCNAC; ISSN: 0002-9165
 DT Journal
 LA English

L12 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1955:85120 CAPLUS
 DN 49:85120
 OREF 49:16092f-h
 TI Activity and localization of acid phosphatase in the vegetative parts of some angiosperms and in some seeds
 AU Frey, Gustave
 CS Univ. Zurich, Switz.
 SO Berichte der Schweizerischen Botanischen Gesellschaft (1954), 64, 390-452
 CODEN: BSBGAQ; ISSN: 0366-3094
 DT Journal
 LA Unavailable

=> d his

(FILE 'HOME' ENTERED AT 09:54:49 ON 12 APR 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 09:54:58 ON 12 APR 2004

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 L4 172 DUPLICATE REMOVE L2 (126 DUPLICATES REMOVED)
 L5 5 DUPLICATE REMOVE L3 (1 DUPLICATE REMOVED)
 L6 4 S NUTRIDENSE AND (PHYTIC OR PHYTATE)
 L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)
 L8 419434 S CORN OR ZEA OR MAYS
 L9 50 S L2 AND L8
 L10 45 S L9 NOT L3
 L11 24 DUPLICATE REMOVE L10 (21 DUPLICATES REMOVED)
 L12 23 S L11 NOT L7

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

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FULL ESTIMATED COST

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STN INTERNATIONAL LOGOFF AT 10:01:56 ON 12 APR 2004